WE CLAIM:

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- 1. A composite textile fabric for use in moisture management of textiles and garments, the composite fabric comprising a generally uniformly integrated fabric layer formed with an inner exposed surface that is predominantly hydrophobic material and an outer surface that is predominantly hydrophilic material, whereby the fabric forms a one-way liquid transport system extending away from the inner surface towards the outer surface.
- 2. A composite fabric according to Claim 1, in which the hydrophilic material is polypropylene.

3. A composite fabric fabric according to Claim 1, in which the hydrophilic material is one of polyester and cotton.

- 4. A re-usable diaper comprising an inner layer formed of the fabric according to Claim 1, a middle layer formed of treated cotton fabrics, and an outer layer formed of water-proof material.
- 5. A diaper comprising an inner layer formed of the fabric according to Claim 1, a middle layer formed of disposable absorbent material, and an outer layer formed of water-proof material.

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- 6. Clothing provided with composite textile fabric layer according to Claim 1.
- 7. An incontinent mattress cover including a composite textile fabric layer according to Claim 1.
 - 8. Clothing according to Claim 7 comprising boxer shorts.
- 9. Clothing according to Claim 7 comprising long pants.